Report Date: 05 Feb 2013

Summary Report for Individual Task
011-143-4008
Evaluate a Minimum Vectoring Altitude Chart
Status: Approved

Condition: In a fixed or tactical facility, given a Minimum Vectoring Altitude Chart (MVAC), associated Federal Aviation Administration (FAA) Form 7210-9, a military protractor, an engineering ruler, and access to appropriate manuals. Some iterations of this task should be performed in MOPP.

Standard: Review the MVAC and FAA Form 7210-9 for proper preparation, coverage, accuracy, and application of required obstacle clearance guidance in accordance with AR 95-2, TC 3-04.81, FAAO 7210.3, FAAO 8260.15, FAAO 8260.19, FAAO 8260.3 , FAAO 8260.64 (verify currency), and Title 14 CFR 77.

Special Condition: None

Special Standards: None

Special Equipment:

Safety Level: Low

MOPP: Sometimes

Task Statements

Cue: None

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: To find FAA Form 7210-9, En Route Minimum IFR/Minimum Vectoring Altitude Obstruction Document, will be stocked at the FAA Logistics Center and additional copies may be ordered through normal supply channels (NSN: 0052-00-911-3000 U/I:SH).

To access the Electronic Code of Federal Regulation go to the following web site: http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&tpl=%2Findex.tpl

To access CHUM/ECHUM go to the following web site:
http://www1.nga.mil/ProductsServices/Aeronautical/Pages/default.aspx or
https://aero.geointel.nga.mil/products/webchum/index.cfm)

Performance Steps

1. Confirm the NAVAID location is plotted IAW FM 3-25.26, Para 4-2 to within 1/10th NM or 200 Meters.

2. Verify the Minimum Vectoring Altitude coverage area.

3. Verify the Adverse Assumption Obstacle exempt area was based on the landing surface length IAW FAAO 8260.19.

4. Verify sectors and FAA Form 7210-9 are labeled alphabetically IAW FAAO 7210.3, Para 3-9-2h and FAA Form 7210-9 instructions.

5. Verify the distance and bearing to the controlling obstruction for each sector IAW FAA Form 7210-9 instructions, FAAO 7210.3, Para 3-9-2, b, 1 and FAAO 8260.15, Para 8 and 13.

6. Verify the controlling obstruction for each designated sector is properly documented on FAA Form 7210-9 IAW FAA Form 7210-9 instructions.

7. Verify application of the correct obstacle buffer IAW FAAO 8260.3, Para 10.2.4 and TC 3-04.81, Para 3-32, Bullet 5.

8. Verify the computed Minimum Vectoring Altitude shown on the MVAC and FAA Form 7210-9 is correct IAW CFR Title 14 Part 77, CFR Title 14 Part 95, FAAO 7210.3, FAAO 8260.19, FAAO 8260.3, FAA Notice 8260.64, and TC 3-04.81.

9. Verify a separate obstruction clearance altitude was established for a sector if the MVA was established in uncontrolled airspace IAW FAAO 7210.3, FAAO 8260.19, FAAO 8260.64, (verify currency) and TC 3-04.81, Para 3-34.

10. Inspect sectors to determine if any further operational advantages can be gained from isolating or grouping obstructions IAW FAAO 7210.3, Para 3-9-2,b,3 and TC 3-04.81, 3-32.

11. Return the MVAC and FAA Form 7210-9 to the Radar Facility Chief and conducted retraining if errors were found.

12. Forward correctly prepared MVAC and FAA Form 7210-9 to the Terminal Platoon Leader for final review.

(Asterisks indicates a leader performance step.)

Evaluation Preparation: In an actual or simulated setting, and a requirement to evaluate a Minimum Vectoring Altitude Chart (MVAC) and FAA Form 7210-9, require the Soldier to review the MVAC for submission in accordance with AR 95-2, CFR Title 14 Part 77, CFR Title 14 Part 95, FAAO 7210.3, FAAO 8260.15, FAAO 8260.19, FAAO 8260.3, FM 3-04.120, TC 3-04.81, and FM 3-25.26.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Confirmed the NAVAID location was correctly plotted IAW FM 3-25.26.			
2. Verified the Minimum Vectoring Altitude coverage area.			
3. Verified the Adverse Assumption Obstacle exempt area was based on the landing surface length.			
4. Verified sectors and FAA Form 7210-9 are correctly labeled IAW FAAO 7210.3 and FAA Form 7210-9 Instructions.			
5. Verified the distance and bearing to the controlling obstruction for each sector IAW FAAO 7210.3 and FAA Form 7210-9 Instructions.			
6. Verified the controlling obstruction for each designated sector was properly documented on FAA Form 7210-9 IAW FAAO 7210.3 and FAA Form 7210-9 instructions.			
7. Verified application of the correct obstacle buffer IAW FAAO 8260.3, and TC 3-04.81.			
8. Verified the computed Minimum Vectoring Altitude shown on the MVAC and FAA Form 7210-9 was correct IAW CFR Title 14 Part 77, CFR Title 14 Part 95, FAAO 7210.3, FAAO 8260.19, FAAO 8260.3, FAA Notice 8260.64, FAAN 8260.64 (verify currency) and TC 3-04.81.			
9. Verified a separate obstruction clearance altitude was established for a sector when the MVA must be established in uncontrolled airspace IAW FAAO JO 7210.3 and FAAO 8260.19.			
10. Inspected sectors to determine if any further operational advantages could be gained from isolating or grouping obstructions IAW FAAO 7210.3 and TC 3-04.81.			
11. Returned the MVAC and FAA Form 7210-9 to the Radar Facility Chief and conducted retraining when errors were found.			
12. Forwarded correctly prepared MVAC and FAA Form 7210-9 to the Terminal Platoon Leader for final review.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	AR 95-2	AIRSPACE, AIRFIELDS/HELIPORTS, FLIGHT ACTIVITIES, AIR TRAFFIC	Yes	No
	CFR TITLE 14 PART 77	Objects Affecting Navigable Airspace	No	No
	CFR TITLE 14 PART 95	IFR Altitudes	No	No
	FAAN 8260.64	Radar Approaches and Minimum Vectoring Altitudes - Current Guidance and Criteria	Yes	No
	FAAO 8260.15	United States Army Terminal Instrument Procedures Service (Use Current Version)	Yes	No
	FAAO 8260.19	Flight Procedures and Airspace(Use Current Version)	Yes	No
	FAAO 8260.3	United States Standard for Terminal Instrument Procedures (TERPS)(Use Current Version)	Yes	No
	FAAO JO 7110.65	Air Traffic Control (Use Current Version)	Yes	No
	FM 3-04.120	Air Traffic Services Operations	No	No
	FM 3-25.26	MAP READING AND LAND NAVIGATION	No	No
	TC 3-04.81(FM 3-04.303)	Air Traffic Control Facility Operations, Training, Maintenance, and Standardization	No	No

Environment: It is the responsibility of all Soldiers and DA civilians to protect the environment, and to participate in the Army's Environmental Management System (EMS) at the installation where they are assigned. The key points of an EMS are:

a. We are committed to the prevention of pollution.
b. We are committed to meeting all applicable legal and regulatory requirements.
c. We will strive for continual improvement in environmental management.

A sustainable installation will use resources wisely to support the current mission, without compromising the ability to accomplish future missions.

Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment and reduce waste during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination. Everyone is responsible for safety. A thorough risk assessment must be completed prior to every mission or operation.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
011-143-3024	Prepare Minimum Vectoring Altitude (MVA) Chart	011 - Aviation (Individual)	Approved
011-143-3029	Supervise the Operation of Tactical Equipment	011 - Aviation (Individual)	Approved

Supported Individual Tasks : None

Supported Collective Tasks :

Task Number	Title	Proponent	Status
01-4-7566	Establish Air Traffic Control (ATC) Letter(s) of Agreement and Procedures	01 - Aviation/Aviation Logistics (Collective)	Approved
01-4-7565	Coordinate Flight Inspections of Navigational AID Systems (NAVAIDS)	01 - Aviation/Aviation Logistics (Collective)	Approved
01-4-7568	Report Air Traffic Control (ATC) Facility Status	01 - Aviation/Aviation Logistics (Collective)	Approved
01-4-7523	Install the AN/TPN-31 (ATNAVICS)	01 - Aviation/Aviation Logistics (Collective)	Approved